

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended): A disc recording apparatus for recording data on a disc comprising a disc, means for storing data recovered from the disc, an interface for transferring recovered data from the means for storing data and write data to the means for storing data, a CPU for performing confirmation of the received data, and an encoder for generating a recording address for the disc, the disc recording apparatus recording data with a recording address y calculated from  $y = n(x-m) + m$ , where x is an absolute time address generated on the basis of a pregroove formed on the disc, n is a scale factor of recording density, and m is a recording start address.
2. (Previously Presented): The apparatus according to claim 1, wherein information regarding storage capacity for data storage on the disc is received, and on the basis of the received information, the scale factor n of recording density is determined.
3. (Previously Presented): The apparatus according to claim 2 comprising means for comparing the received information regarding storage capacity and a predetermined maximum storage capacity.
4. (Previously Presented): The apparatus according to claim 3, wherein if the predetermined maximum storage capacity is exceeded in a comparison of the received information regarding storage capacity and the maximum storage capacity, data indicating that recording is impossible is sent.

5. (Previously Presented): The apparatus according to claim 2, comprising means for comparing the received information regarding storage capacity and two predetermined maximum storage capacities.

6. (Previously Presented): The apparatus according to claim 2, wherein the received information regarding storage capacity is sent from an external computer.

7. (Previously Presented): The apparatus according to claim 1, wherein the  $n$  is greater than 1 and less than or equal to 1.2.

8. (Previously Presented): The apparatus according to claim 7, wherein if scale factor  $n$  that is determined on the basis of received information exceeds 1.2, a response is sent indicating that recording at that scale factor  $n$  is impossible.

9. (Currently Amended): A disc recording apparatus for recording data to a disc comprising a disc, means for storing data recovered from the disc, an interface for transferring recovered data from the means for storing data and write data to the means for storing data, a CPU for performing confirmation of the received data, and an encoder for generating a recording address for the disc, the disc recording apparatus recording data with a recording address calculated as  $y = n(x-m) + m$  in the case where an offset address does not exist, where  $x$  is the absolute time address generated on the basis of a pregroove formed on the disc,  $n$  is the scale factor of recording density, and  $m$  is the recording start address, and the recording address  $z$  calculated as  $z = y + p$  in the case where recording is performed with the offset address, where  $p$  is the offset address.

10. (Previously Presented): The apparatus according to claim 9, wherein information regarding storage capacity of the disc for recording data is received, and the scale factor  $n$  of recording density is determined on the basis of the received information.

11. (Previously Presented): The apparatus according to claim 10 comprising means for comparing the received information regarding storage capacity and a predetermined maximum recording capacity.

12. (Previously Presented): The apparatus according to claim 11, wherein if the predetermined maximum storage capacity is exceeded in a comparison of the received information regarding storage capacity and the maximum storage capacity, data indicating that recording is impossible is sent.

13. (Previously Presented): The apparatus according to claim 10, comprising means for comparing the received information regarding storage capacity and two predetermined maximum storage capacities.

14. (Previously Presented): The apparatus according to claim 10, wherein the received information regarding storage capacity is sent from an external computer.

15. (Previously Presented): A disc recorded with data comprising data recorded with  $y$  as a recording address calculated from  $y = n(x-m) + m$ , where  $x$  is an absolute time address generated on the basis of a pregroove formed on the disc,  $n$  is a scale factor of recording density, and  $m$  is a recording start address.

16. (Previously Presented): The disc according to claim 15, wherein the  $n$  is greater than 1 and less than or equal to 1.2.

17. (Previously Presented): A method for recording data comprising calculating a recording address  $y$  using  $y = n(x-m) + m$ , where  $x$  is an absolute time address generated on the basis of a pregroove formed on a disc,  $n$  is a scale factor of recording density, and  $m$  is a recording start address.

18. (Previously Presented): The method according to claim 17 further comprising determining the scale factor  $n$  of recording density on the basis of information regarding storage capacity for data storage on the disc received.

19. (Previously Presented): The method according to claim 18 further comprising comparing the received information regarding storage capacity and a predetermined maximum storage capacity.

20. (Previously Presented): The method according to claim 19 further comprising sending data indicating that recording is impossible if the predetermined maximum storage capacity is exceeded in a comparison of the received information regarding storage capacity and the maximum storage capacity.

21 (Previously Presented): The method according to claim 17 further comprising comparing the received information regarding storage capacity and two predetermined maximum storage capacities.

22 (Previously Presented): The method according to claim 18 further comprising sending the received information regarding storage capacity from an external computer.